

Please Direct All Correspondence to Customer Number **20995**

**TRANSMITTAL LETTER**  
**INFORMATION DISCLOSURE STATEMENT**

Applicant : Jensen, et al.  
App. No : 10/590,768  
Filed : August 24, 2006  
For : METHOD, CHIP, DEVICE AND SYSTEM  
FOR COLLECTION OF BIOLOGICAL  
PARTICLES  
Examiner : Unassigned  
Art Unit : 2856

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

January 24, 2007

(Date)

Eric S. Furman, Ph.D., Reg. No. 45,664

**Mail Stop Amendment**

Commissioner for Patents

P.O. Box 1450

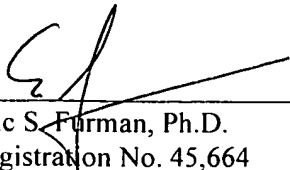
Alexandria, VA 22313-1450

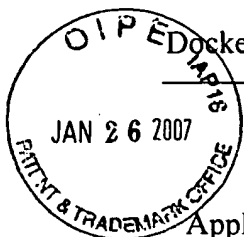
Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement and PTO/SB/08 equivalent listing references for consideration:
  - (X) Listing sixty-four (64) references.
  - (X) Enclosing thirty-nine (39) references.
- (X) Return prepaid postcard.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

  
Eric S. Furman, Ph.D.  
Registration No. 45,664  
Attorney of Record  
Customer No. 20,995  
(619) 235-8550



## INFORMATION DISCLOSURE STATEMENT

Applicant : Jensen, et al.  
App. No : 10/590,768  
Filed : August 24, 2006  
For : METHOD, CHIP, DEVICE AND  
SYSTEM FOR COLLECTION OF  
BIOLOGICAL PARTICLES  
Examiner : Unassigned  
Art Unit : 2856

## CERTIFICATE OF MAILING

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

January 24, 2007

(Date)

Eric S. Furlan, Ph.D., Reg. No. 45,664

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

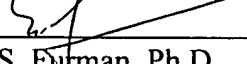
Enclosed for filing in the above-identified application is a PTO/SB/08 Equivalent listing sixty-four (64) references to be considered by the Examiner. Also enclosed are thirty-nine (39) foreign patent references and/or non-patent literature as listed on the Information Disclosure Statement. Applicants make note that copies of co-pending U.S. Application Nos. 10/590648, 10/590630, and 10/590632 have not been provided.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required. If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 1/24/07

By:   
Eric S. Furlan, Ph.D.  
Registration No. 45,664  
Attorney of Record  
Customer No. 20,995  
(619) 235-8550

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application No.	10/590,768
Filing Date	August 24, 2006
First Named Inventor	Gert Bolander Jensen
Art Unit	2856
Examiner	Unassigned
Attorney Docket No.	PLOUG26.004APC

(Multiple sheets used when necessary)

SHEET 1 OF 4

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	342,548	05-25-1886	Walker	
	2	895,729	08-11-1908	Cottrell	
	3	1,204,907	11-14-1916	Schmidt	
	4	1,250,088	12-11-1917	Burns	
	5	1,605,648	11-02-1926	Cooke	
	6	1,931,436	10-17-1933	Deutsch	
	7	2,085,349	06-29-1937	Wintermute	
	8	2,129,783	09-13-1938	Penney	
	9	2,142,129	01-03-1939	Hoss, et al.	
	10	2,297,601	09-29-1942	Williams	
	11	2,847,082	08-12-1958	Roos	
	12	3,910,779	10-07-1975	Penney	
	13	3,999,964	12-28-1976	Carr	
	14	5,674,742	10-07-1997	Northrup, et al.	
	15	6,126,800	10-03-2000	Caillat, et al.	
	16	6,364,941	04-02-2002	Liu, et al.	
	17	6,586,253	07-01-2003	Harrison, et al.	
	18	6,623,544	09-23-2003	Kaura	
	19	6,673,621	01-06-2004	Mitchell	
	20	2001/0029793	10-18-2001	Moler, et al.	
	21	2002/0017195	02-14-2002	Tolvanen	
	22	2003/0136205	07-24-2003	Totoki	

Examiner Signature

Date Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Application No.	10/590,768
	Filing Date	August 24, 2006
	First Named Inventor	Gert Bolander Jensen
	Art Unit	2856
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 2 OF 4	Attorney Docket No.	PLOUG26.004APC

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
	23	DE 27 56 164 A1	06-21-1979	Beck, C. H.		
	24	WO 03/004996 A2	01-16-2003	Biochem Tech, LLC		
	25	WO 03/031067 A1	04-17-2003	Massachusetts Institute of Technology		
	26	WO 2004/013329 A1	02-12-2004	Imperial College Innovations Limited		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
	27	Atrih, et al. 2001. Analysis of the role of bacterial endospore cortex structure in resistance properties and demonstration of its conservation amongst species. <i>Journal of Applied Microbiology</i> , 91:364-372.	
	28	Boe, et al. 1989. Replication origins of single-stranded-DNA plasmid pUB110. <i>Journal of Bacteriology</i> , 171(6):3366-3372.	
	29	Cano, et al. 1995. Revival and identification of bacterial spores in 25- to 40-million-year-old Dominican amber. <i>Science</i> , 268:1060-1064.	
	30	Chen, et al. 2000. Analysis of DNA fragments by microchip electrophoresis fabricated on poly(methyl methacrylate) substrates using a wire-imprinting method. <i>Electrophoresis</i> , 21:165-170.	
	31	Cho, et al. 1999. Kinetics of inactivation of <i>Bacillus subtilis</i> spores by continuous or intermittent Ohmic and conventional heating. <i>Biotechnology and Bioengineering</i> , 62(3):368-372.	
	32	Cserhalmi, et al. 2002. Inactivation of <i>Saccharomyces cerevisiae</i> and <i>Bacillus cereus</i> by pulsed electric fields technology. <i>Innovative Food Science &amp; Emerging Technologies</i> , 3:41-45.	
	33	Daniel, et al. 1998. Silicon microchambers for DNA amplification. <i>Sensors and Actuators A</i> , 71:81-88.	
	34	Dull, et al. 2002. <i>Bacillus anthracis</i> aerosolization associated with a contaminated mail sorting machine. <i>Emerging Infectious Diseases</i> , 8(10):1044-1047.	
	35	Fridez, et al. 1996. PCR DNA typing of stamps: Evaluation of the DNA extraction. <i>Forensic Science International</i> , 78:103-110.	
	36	Grahl, et al. 1996. Killing of microorganisms by pulsed electric fields. <i>Appl. Microbiol. Biotechnol.</i> , 45:148-157.	

Examiner Signature	Date Considered
<p><b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Application No.	10/590,768
	Filing Date	August 24, 2006
	First Named Inventor	Gert Bolander Jensen
	Art Unit	2856
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 3 OF 4	Attorney Docket No.	PLOUG26.004APC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
	37	Iversen, et al. 1975. Electrostatic air filters for dental practice. <i>Nor Tannlaegeforen Tid</i> , 85:446-448.	✓ (Summary)
	38	Johns, et al. 1994. Improved methods for the detection of <i>Bacillus anthracis</i> spores by the polymerase chain reaction. <i>Letters in Applied Microbiology</i> , 18:236-238.	
	39	Johnson, et al. 2001. Development of a fully integrated analysis system for ions based on ion-selective optodes and centrifugal microfluidics. <i>Anal. Chem.</i> , 73:3940-3946.	
	40	Kopp, et al. 1998. Chemical amplification: Continuous-flow PCR on a chip. <i>Science</i> , 280:1046-1048.	
	41	Lado, et al. 2002. Alternative food-preservation technologies: Efficacy and mechanisms. <i>Microbes and Infection</i> , 4:433-440.	
	42	Lagally, et al. 2001. Single-molecule DNA amplification and analysis in an integrated microfluidic device. <i>Analytical Chemistry</i> , 73: 565-570.	
	43	Levi, et al. 2003. Molecular detection of anthrax spores on animal fibres. <i>Letters in Applied Microbiology</i> , 36:418-422.	
	44	Mafart, et al. 1997. Modelling the heat stress and the recovery of bacterial spores. <i>International Journal of Food Microbiology</i> , 37:131-135.	
	45	Mainelis, et al. 1999. Collection of airborne microorganisms by electrostatic precipitation. <i>Aerosol Science and Technology</i> , 30:127-144.	
	46	Mainelis, et al. 2002a. Collection of airborne microorganisms by a new electrostatic precipitator. <i>Journal of Aerosol Science</i> , 33:1417-1432.	
	47	Mainelis, et al. 2002b. Design and collection efficiency of a new electrostatic precipitator for bioaerosol collection. <i>Aerosol Science &amp; Technology</i> , 36(11):1073-1085.	
	48	Mainelis, et al. 2002c. Effect of electrical charges and fields on injury and viability of airborne bacteria. <i>Biotechnology and Bioengineering</i> , 79(2):229-241.	
	49	Mainelis, et al. 2003. Application of electrostatic precipitation for simultaneous determination of culturable and total airborne microorganisms. <i>American Society for Microbiology General Meeting</i> , Meeting Abstract, May 18-22, 2003.	
	50	O'Brien, et al. Size and concentration measurement of an industrial aerosol. <i>Am. Ind. Hyg. Assoc. J.</i> , 47(7):386-392.	
	51	Northrup, et al. 1998. A miniature analytical instrument for nucleic acids based in micromachined silicon reaction chambers. <i>Analytical Chemistry</i> , 70(5):918-922.	
	52	Pugmire, et al. 2002. Surface characterization of laser-ablated polymers used for microfluidics. <i>Analytical Chemistry</i> , 74(4):871-878.	
	53	Schafer, et al. 2003. Rapid detection and determination of the aerodynamic size range of airborne mycobacteria associated with whirlpools. <i>Applied Occupational and Environmental Hygiene</i> , 18(1):41-50.	
	54	Schneegaß, et al. 2001. Miniaturized flow-through PCR with different template types in a silicon chip thermocycler. <i>Lab on a Chip</i> , 1:42-49.	

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

IFW RECEIVED 35 NPL

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Multiple sheets used when necessary)</i>	Application No.	10/590,768
	Filing Date	August 24, 2006
	First Named Inventor	Gert Bolander Jensen
	Art Unit	2856
	Examiner	Unassigned
SHEET 4 OF 4	Attorney Docket No.	PLOUG26.004APC

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
	55	Shoffner, et al. 1996. Chip PCR. I. Surface passivation of microfabricated silicon-glass chips for PCR. <i>Nucleic Acids Research</i> , 24(2):375-379.	
	56	Spilimbergo, et al. 2003. Inactivation of bacteria and spores by pulse electric field and high pressure CO <sub>2</sub> at low temperature. <i>Biotechnology and Bioengineering</i> , 82(1):118-125.	
	57	Sung, et al. 2001. Plastic microchip electrophoresis for genetic screening: The analysis of polymerase chain reactions products of fragile X (CGG) <sub>n</sub> alleles. <i>Electrophoresis</i> , 22:1188-1193.	
	58	Tsong, T. Y. 1991. Electroporation of cell membranes. <i>Biophysical Journal</i> , 60:297-306.	
	59	Tsong, et al. 1999. Biological effects of electric shock and heat denaturation and oxidation of molecules, membranes, and cellular functions. <i>Annals New York Academy of Sciences</i> , 888:211-232.	
	60	Vincent, et al. 1999. Application of recent advances in aerosol sampling science towards the development of improved sampling devices: The way ahead. <i>J. Environ. Monit.</i> , 1:285-292.	
	61	International Search Report dated August 17, 2005 for PCT/DK2005/000133.	
	62	Co-pending U.S. Application No. 10/590,630 filed August 23, 2006, titled METHOD, CHIP, DEVICE AND SYSTEM FOR EXTRACTION OF BIOLOGICAL MATERIALS.	
	63	Co-pending U.S. Application No. 10/590,632 filed August 23, 2006, titled METHOD, CHIP, DEVICE AND INTEGRATED SYSTEM FOR DETECTION BIOLOGICAL PARTICLES.	
	64	Co-pending U.S. Application No. 10/590,648 filed August 23, 2006, titled METHOD, KIT AND SYSTEM FOR ENHANCED NESTED PCR.	

3343641:dmb  
012407

Examiner Signature	Date Considered
<b>*Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.